[036]	Fig. 1 is a diagram with time based curves of transmission speeds of
	rotation relevant to the upshifting procedure, [[and]]
[037]	Fig. 2 is a diagram, similar to Fig. 1, however, with explanatory comments
	for the determination of the rate of change of the transmission speed of rotation.
	and

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Fig. 3 shows the various components which are controlled and regulated by the method according to the present invention.

[039] In the diagram presented in Fig. 1 is to be seen a curve of the transmission input speed of rotation 1, plotted against time during an upshift procedure. As is customary, during such upshift procedures, the transmission input speed of rotation is braked down from a comparative high speed of rotation level by way of the braking action of a transmission brake (not shown) 12 to the extent, that this corresponds to a set transmission input speed of rotation 2 or approaches very close to this value. This set transmission input speed of rotation 2 finds itself in a synchronized run, speed of rotation window 4, upon the attainment of which, fundamentally, a mechanical coupling of the transmission member for the next high transmission gear stage is possible.

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[048]	The various components, which are controlled and regulated by the	4
	method according to the present invention, are shown in Fig. 3. The automatic	4
	transmission 13 is constructed with a countershaft 14, having a transmission	4
	input shaft 15, with at least one countershaft 14 driven by the transmission	4
	input shaft 15 and with a transmission output shaft 16. Loose 17 and/or	4
	fixed gears 18 are supported upon the transmission input shaft 15, the	4
	countershaft 14 and/or on the transmission output shaft 16 which mesh with one	4
	another. A coupling apparatus 19 is provided for coupling the loose gears 17	4
	and carrying out of a gear change. The transmission brake 12 is controlled by	4
	a control device 20 and is provided for braking the countershaft 14.	4

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1 transmission input speed of rotation
2 set transmission input speed of rotation
3 targeted speed of rotation window

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Reference numerals

20 control device

4 syn	chronized run speed of rotation window	
5 cur	ve of the transmission input speed of rotation leads to no change of the lead	
	time	
6 cur	ve of the transmission input speed of rotation leads to a lengthening of the lead	
	time	
7 cur	ve of the transmission input speed of rotation leads to a lessening of the lead	
	time	
8 pos	sible curve of the transmission input speed of rotation	
9 mid	-point of the targeted speed of rotation window	
10 det	ermination of the maximum rate of change of the transmission input speed	
	of rotation	
11 spe	eed of rotation difference between the speed of rotation of the engagement	
	procedure and the mid-point of the set speed of rotation window.	
12	transmission brake	4
13	automatic transmission	7
14	countershaft	4
15	transmission input shaft	4
16	transmission output shaft	4
17	loose gear	4
18	fixed gear	4
19	coupling apparatus	4